

**DIVISION OF ENVIRONMENTAL HEALTH
SOLID WASTE PROGRAM
610 UNIVERSITY AVENUE
FAIRBANKS, AK 99709-3643**

**Telephone: (907) 451-2108
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File Number: 475.15.001

July 2, 1999

CERTIFIED MAIL - RETURN RECEIPT REQUESTED # Z 182 375 094

U.S. Air Force
Major Kent H. Nonaka
611th CES/CEV
10471 20th St., Suite 302
Elmendorf AFB, AK 99506-2200

**RE: Solid Waste Disposal Permit #9932-BA001, Tin City Long Range Radar Station Landfill,
Modification of Permit #9832-BA003**

Dear Major Nonaka:

The Department of Environmental Conservation has completed its evaluation of your Solid Waste Permit Application for a Class III municipal (camp) solid waste landfill and a one-time disposal of demolition debris at the Tin City LRRS, located at Section 24, T.2N., R.45W., Kateel River Meridian, and is issuing the enclosed permit in accordance with AS 46, 18 AAC 15, and 18 AAC 60. Please review the conditions and stipulations in the permit and ensure they are all understood. A copy of the enclosed permit has also been sent to PMC/FRONTEC who operates the Tin City LRRS Camp Landfill. This permit is effective upon issuance and expires July 31, 2003.

This permit modification allows the Air Force to dispose of soil with polychlorinated biphenyls (PCBs) in concentrations not exceeding 10 mg/kg and petroleum hydrocarbon levels that do not exceed migration to groundwater standards listed in 18 AAC 75.341 Table B1 or B2. Although this soil may be used for operational cover, final cover soil used during closure of the landfill shall not exceed 1 mg/kg PCBs. An inventory of soils exceeding 1 mg/kg of PCBs shall be submitted to the Department within 60 days of the last waste placement in the demolition debris cell.

Any person who disagrees with this decision may appeal the decision by requesting an adjudicatory hearing, using the procedures contained in 18 AAC 15.200-310. Hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 105, Juneau, Alaska 99801-1795, within 30 days of receipt of this letter. If a hearing is not requested within

30 days, the right to appeal is waived. Even if an adjudicatory hearing has been requested and granted, all permit conditions remain in full force and effect. Please also send a copy of the request to the undersigned.

Sincerely,

Kris McCumby for
Heather T. Stockard
Solid Waste Program Manager

NS/mlg (EH/SW/FBKS - \\FBX-FILE\GROUPS\EH\SW\1999\9932-BA001 Tin City.doc)

Enclosure: *Permit 9932-BA001

cc w/encl: Mark Shoviak, 611th Air Force/Elmendorf AFB
Dixie Banner, PMC/FRONTEC/Elmendorf AFB
Kris McCumby, ADEC/Fairbanks
Trustees for Alaska/Anchorage

**ALASKA DEPARTMENT
OF
ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL HEALTH
610 UNIVERSITY AVENUE
FAIRBANKS, ALASKA 99709-3643**

SOLID WASTE DISPOSAL PERMIT

Permit: **9932-BA001**

Date: July 2, 1999

This Solid Waste Disposal Permit is issued to the Department of the Air Force, 611 Air Support Group 6900 9th Street, Suite 360, Elmendorf Air Force Base, Alaska 99506, for the operation and maintenance of a Class III municipal (camp) solid waste landfill for the disposal of domestic refuse incinerator ash, sewage sludge, construction/demolition debris, and asbestos containing materials; and a one-time disposal of demolition debris and asbestos containing materials at the Tin City LRRS, located in Section 24, T.2N., R.45W., Kateel River Meridian. This permit is subject to the conditions and stipulations contained in Appendices A, B, C, and D, which are incorporated herein by reference.

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This permit is issued under the provisions of Alaska Statute 46.03, and the Alaska Administrative Code, as amended or revised, and other applicable state laws and regulations.

This permit is effective upon issuance and expires July 31, 2003. It may be terminated or modified in accordance with AS 46.03.120.

Kris McCumby for
Heather T. Stockard
Solid Waste Program Manager

APPENDIX A – MUNICIPAL (CAMP) SOLID WASTE DISPOSAL CONDITIONS

I. SITE PREPARATION

The permit holder shall:

- A. Comply with the designs and plans in the application dated April 30, 1998 which includes the following documents: Site Plan and Cross Section, Operations Plan, Visual Monitoring and Corrective Action Plan, Closure Plan, and Stormwater Discharge Notice of Intent; the letter amendments dated May 15, 1998, June 23, 1998, and June 30, 1998; and Final Design Drawings dated July 1, 1998 as well as the following permit conditions. Additional modifications may be requested, but must be authorized by a permit amendment, before that modification is effective.
- B. Ensure that all operations will accommodate the waste volume and are done in a manner that will facilitate close out when the landfill is closed.
- C. Erect and maintain a readily visible sign at the site currently in use with the following information legibly printed:

Facility Identification
Owner/Operator Name
Conditions for Use
Emergency Phone Numbers

- D. Erect and maintain a readily visible sign at the entrance to the facility that states:

WARNING
HAZARDOUS WASTE NOT ACCEPTED AT THIS LANDFILL
PROHIBITED MATERIALS INCLUDE:
BATTERIES EXPLOSIVES
ANTIFREEZE PAINTS/SOLVENTS
PCB's WASTE OIL/FUELS

- E. Erect and maintain readily visible signs in the facility directing users to the various disposal areas and pertinent rules.
- F. Ensure that surface water runoff from outside the facility does not flow onto the facility and over, into, or through uncovered or covered solid wastes by constructing and maintaining diversion structures such as ditches or berms.
- G. Ensure public access to the facility is controlled to reduce risks to health and to reduce safety hazards.
- H. Maintain the site to prevent its being an attraction to wildlife and domestic animals. If necessary, erect and maintain a fence or other devices to keep bears and other scavenging animals out of the incinerated refuse.

II. SITE OPERATION

The permit holder shall:

A. General Operating Procedures

1. Ensure that only domestic refuse ash or incinerator wastes, sewage sludge, asbestos containing materials, construction/demolition debris, and non-salvageable scrap metal are disposed at this site. Putrescible wastes may not be disposed of at this site. Disposal requirements for regulated asbestos containing materials (RACM) are included in Appendix C.

B. Burial

1. Consolidate and compact all refuse and cover with a minimum of six inches of compacted soil once each month when soils are not frozen and workable. Burial will be required on a more frequent basis to reduce nuisances, animal attraction, or blowing litter if they are determined to be a problem by the Department.
2. Cover all refuse with a minimum of twelve inches of intermediate cover in the fall before snow falls and while soils are still workable.
3. Consolidate and compact any uncovered waste and cover it with six inches of compacted soil as soon as the soil thaws and become workable in the spring.
4. Maintain a minimum separation of 50 feet between the designated portion of the landfill and the boundary of the facility.
5. Ensure that the maximum landfill working face width shall not exceed 50 feet. The maximum height of the working face shall not exceed 3 feet.
6. Ensure the working face is kept as small as practical to reduce the potential for windblown litter and for the attraction of birds and animals.
7. Ensure that solid wastes are not placed in surface waters and that a minimum vertical distance of 4 feet is maintained between the seasonal high groundwater table and area of waste disposal.
8. Ensure waste, leachate, or eroded soil from the facility does not cause a violation of the water quality standards set out in 18 AAC 70.
9. Ensure that non-salvageable drums have been emptied of fluids prior to crushing and burying. All fluids removed from the drums prior to their placement in the landfill shall be properly disposed of in accordance with all applicable state and federal laws, including but not limited to, RCRA, the Clean Water Act, the Clean Air Act, Title 46 of Alaska Statutes, and 18 AAC 60.

II. SITE OPERATION (Cont.)

C. Snow Removal

1. Remove accumulated snow greater than 18 inches deep from the working face as required during the winter.
2. Remove all accumulated snow from the disposal cell operations area prior to spring thaw.
3. Deposit any snow removed in an area away from the working face and clean up any accumulated litter after the snow melts.

D. Sewage Sludge Disposal

1. Prior to disposal, ensure that sludge is non-hazardous by testing it using the Toxicity Characteristic Leaching Procedure (TCLP) test (EPA Method 1311) and that it passes the Paint Filter Liquids Test (EPA Method 9095).
2. Collect sewage sludge samples using a quality assurance plan/quality control (QA/QC) plan for collection. Sample analyses shall be done by a laboratory for which a QA/QC plan has been submitted and approved by the Department.
3. Maintain a record of the results of sewage sludge analyses and supply a copy to the Department within 60 days after receipt of the analytical data.
4. Ensure that sewage sludge will be limed and covered immediately with at least 6 inches of soil or otherwise managed to prevent health hazards and odor nuisances.

E. Burning

1. Ensure that open burning of wood and wood products are kept at least 100 feet from the working face. Burning shall be done in burn boxes, burn cages, or other means of ensuring controlled burning which prevents the escape of burning ash from the open burn area.
2. Cover all burnable wastes at the working face with a minimum of six inches of soil prior to open burning.
3. Ensure burning occurs only when an attendant is on duty.
4. Prohibit items that generate black smoke from being burned, such as tires and plastics. Open burning shall comply with air quality regulations in 18 AAC 50 and all other applicable state and federal regulations.
5. Prohibit burning of any asbestos containing materials, friable or non-friable. Notify the ADEC Solid Waste Program, Fairbanks office, at (907) 451-2108, within 24 hours of the determination that any burned material contains asbestos.

6. Prohibit open burning on the working face and immediately extinguish all fires that occur on the working face. Notify the Department of Environmental Conservation, Solid Waste Program, Fairbanks office, at (907) 451-2108, if any fires occur on the working face.

F. Access

1. Construct and maintain on site roads as necessary to assure adequate traffic control. Adequate traffic control means that the site supervisor will maintain positive control of all persons who are within the landfill boundaries and that refuse will be deposited in approved locations. Dumping in unauthorized areas violates conditions of this permit and Alaska Administrative Codes.

G. Litter

1. Collect all windblown and littered refuse from within the disposal site and along the entrance road at least once each week and return it to the active disposal trench for burial. All littered wastes on lands within 500 feet of the site, whether windblown or dumped, shall be collected and disposed of at a frequency necessary to prevent this litter from becoming a nuisance.

III. PROHIBITIONS AND SPECIAL RESTRICTIONS

The permit holder shall:

- A. Prohibit discharge of firearms at the facility.
- B. Prohibit disposal of hazardous wastes, as defined in 40 CFR 261.3, oily wastes, waste oil, greases, paints, and chemical wastes at this facility unless written permission is obtained from the Department.
- C. Prohibit the disposal of all salvageable or recyclable materials including, but not limited to, prefabricated buildings, vehicles, drums, tankage, and major equipment components.
- D. Prohibit disposal of lead-acid vehicle batteries at the landfill site. Temporary storage in leak-proof, covered containers prior to transport to an acceptable recycle or disposal site is permitted.
- E. Prohibit disposal of putrescible wastes that have not been incinerated, unless prior written permission is received from the Department.
- F. Prohibit the disposal of contaminated soil which
 1. contains concentrations of hazardous substances exceeding one or more of the applicable migration to groundwater levels set in 18 AAC 75.341 Table B1 or Table B2;
 2. exhibits the characteristic of toxicity described in 40 C.F.R. 261.24(a); or
 3. is determined by the department under 18 AAC 75 to pose a migration to surface water threat. Soil that is not contaminated by this definition may be considered contaminated soil under 18 AAC 75.

IV. MONITORING AND REPORTING

The permit holder shall:

- A. Visually monitor the site each month for signs of damage or potential damage from settlement, ponding, leakage, erosion, or operations at the site. Record the inspection results and corrective action, and maintain them in the facility's operating record. Make copies of these records available to the Department upon request.
- B. Maintain a set of site development and use plans and submit an updated copy to the Department showing current status before the anniversary date each year.
- C. Photograph the disposal site:
 - 1. As prepared for waste disposal.
 - 2. During waste deposition at least once per year.
 - 3. After final cover has been applied.
 - 4. After revegetation during the summer following closure.
Photographs taken under 1, 2, and 3, above should be submitted within 60 days of closure and photographs under 4, within one year of closure.
- D. Submit sewage sludge analytical data as required in Appendix A.II.D of this permit.

V. CLOSURE AND RESTORATION

The permit holder shall:

- A. Notify the Solid Waste Program, Fairbanks ADEC Office at least 30 days before the site is to be permanently closed and the equipment withdrawn.
- B. Ensure that a final cover be applied within 90 days after the last waste is deposited and consists of at least 24 inches of clean soil, the top 6 inches of which will promote adequate water retention for the successful revegetation of the site with native vegetation or grasses. Soil used for final cover may not contain PCBs in excess of 1 mg/kg.
- C. Ensure that the covered areas and drainage control structures are graded to promote and maintain surface water runoff so as to prevent ponding, erosion, and to minimize the amount of water entering the solid waste. Surface restoration and erosion control work, such as grading and contouring, will be completed within 90 days after site closure. Restoration will be required if the Department determines that significant erosion has occurred within 5 years of facility closure.

- D. Develop a vegetative cover plan for completed area within the first growing season using plant species recommended by the Alaska Plant Material Center (907) 745-4469.

V. CLOSURE AND RESTORATION (Cont.)

- E. Prepare a survey, as-built or record drawings showing the location, volume and type of waste deposited at the solid waste disposal site, and a legal description of the landfill property which would be found during a title search. Submit the as-built or drawing to the ADEC Solid Waste Program, Fairbanks Office, within 60 days of the final closure or expiration date of this permit. A copy will be provided to any purchaser or transferee at the time of property sale or lease.
- F. Within 60 days after the entire facility is permanently closed to landfilling, file the survey as-built or record drawings of the area used as a landfill with the State Recorder's Office or other appropriate land records office approved by the Department. At the same time, file a notation informing future property owners
 - 1. that use of the land may not disturb the integrity of the final cover, cap, or other structures or devices installed as part of closure, unless approved by the Department; and
 - 2. about asbestos health and safety hazards related to disturbing the site.
- G. Submit proof of these recordings to the ADEC Solid Waste Program.
- H. Conduct annual visual monitoring inspections of the site for signs of damage or potential damage from settlement, ponding, leakage, or erosion for five years after the landfill has been closed. Record the inspection results and corrective actions, and maintain them in the facility's operating record.
- I. Submit a report five years after closure to ADEC Solid Waste Program, Fairbanks office that contains recent photographs of the site, thermal monitoring data, visual inspection logs, and description of any problems detected during visual monitoring and the corrective actions taken.

VI. RESOURCE CONSERVATION AND RECOVERY

The permit holder shall:

- A. Prohibit uncontrolled scavenging and salvaging by the public.
- B. Designate a recyclable material storage area away from the working face where scrap metal and lead-acid vehicle batteries may be stored prior to recycling.

APPENDIX B – ONE-TIME DISPOSAL OF DEMOLITION DEBRIS CONDITIONS

I. SITE PREPARATION

The permit holder shall:

- A. Comply with the designs and plans in the application dated April 30, 1998 which includes the following documents: Site Plan and Cross Section, Operations Plan, Visual Monitoring and Corrective Action Plan, Closure Plan, and Stormwater Discharge Notice of Intent; the letter amendments dated May 15, 1998, June 23, 1998, June 30, 1998, and June 3, 1999; and Final Design Drawings dated July 1, 1998 as well as the following permit conditions. Additional modifications may be requested, but must be authorized by a permit amendment, before that modification is effective.
- B. Ensure that all operations will accommodate the waste volume and are done in a manner that will facilitate landfill closure.
- C. Erect and maintain a readily visible sign at the site currently in use with the following information legibly printed:

Facility Identification
Owner/Operator Name
Conditions for Use
Emergency Phone Numbers

- D. Ensure that surface water runoff from outside the facility does not flow onto the facility and over, into, or through uncovered or covered solid wastes by constructing and maintaining diversion structures such as ditches or berms.
- E. Ensure public access to the facility is controlled to reduce risks to health and to reduce safety hazards.
- F. Maintain the site to prevent its being an attraction to wildlife and domestic animals. If necessary, erect and maintain a fence or other devices to keep scavenging animals out of the refuse.

II. SITE OPERATION

The permit holder shall:

A. General Operating Procedures

- 1. Ensure that only construction/demolition debris, building debris, non-salvageable scrap metal and asbestos containing materials are disposed of at this site. Disposal requirements for regulated asbestos containing materials (RACM) are included in Appendix C.

II. SITE OPERATION (Cont.)

2. Ensure non-regulated asbestos containing material (non-RACM) waste is placed in a leak tight container or covered with six inches of clean soil within 24 hours after its placement in the disposal area. Non-regulated asbestos containing material (non-RACM) must be buried in a manner that does not result in the release of asbestos fibers to the air or to surface water.
3. Ensure that all electrical equipment, generators, radar domes, and other equipment have been drained of fluid and the fluid managed in accordance with 40 CFR 261.
4. Ensure that any stained soils, or soils from areas identified as contaminated or potentially contaminated, are not placed in the landfill unless a complete characterization of the soils have been conducted under a clean up plan approved by the ADEC Contaminated Sites Program. Ensure that a representative soil sample, or samples be analyzed by a Department approved laboratory and the results submitted to the ADEC Solid Waste Program for review before being placed in the landfill.
5. Conduct random load inspections of wastes received at the landfill prior to disposal at the working face in order to check for the presence of hazardous and prohibited wastes. Inspection records documenting the date of each inspection, the type of wastes found and any corrective actions taken shall be kept in the landfill operating record. Make copies of the records available to the Department upon request.

B. Burial

1. Consolidate and compact all loose debris and cover with a minimum of six inches of compacted soil, as needed, to prevent the release of dust or windblown litter. Solid wastes should be compacted in 2-foot increments before applying operational, or final cover.
2. Consolidate, compact and cover all wastes with a minimum of twelve inches of soil at the end of each demolition and removal phase or summer season. Grade the completed landfill areas to promote surface water runoff without erosion.
3. Maintain a minimum separation of 50 feet between the designated portion of the landfill and the boundary of the facility.
4. Ensure that the maximum landfill working face width shall not exceed 200 feet. The maximum height of the working face shall not exceed 6 feet.
5. Ensure the working face is kept as small as practical to reduce the potential for windblown litter.
6. Ensure that soil disposed in the landfill or used for operational cover does not exceed 10 mg/kg polychlorinated biphenyl (PCB) concentration.
7. Ensure that used oils or oily wastes are managed in accordance with 40 CFR 279.

II. SITE OPERATION (Cont.)

8. Ensure that all non-salvageable drums, tanks, and associated piping are empty of fluids prior to crushing and burying. Remove all fluids from drums, tanks, and associated piping prior to disposal and properly dispose of in accordance with all applicable State and Federal laws, including but not limited to, RCRA, the Clean Water Act, the Clean Air Act, Title 46 of Alaska Statutes and 18 AAC 60. Ensure that all large containers (e.g., cleaned drums and tanks) are crushed and flattened to prevent voids in the fill.

C. Snow Removal

1. Remove all accumulated snow from the disposal cell operations area prior to spring thaw and clean up any accumulated litter in the snow storage area after the snow melts.

D. Burning

1. Ensure that open burning of wood and wood products are kept at least 200 feet from the working face. Burning shall be done in burn pits, burn boxes, burn cages, or other means of ensuring controlled burning which prevents the escape of burning ash from the open burn area.
2. Ensure burning occurs only when an attendant is on duty.
3. Prohibit items that generate black smoke from being burned, such as tires and plastics. Open burning shall comply with air quality regulations in 18 AAC 50 and all other applicable state and federal regulations.
4. Prohibit burning of any asbestos containing materials, friable or non-friable. Notify the ADEC Solid Waste Program, Fairbanks office, at (907) 451-2108, within 24 hours of the determination that any burned material contains asbestos.
5. Prohibit open burning on the working face and immediately extinguish all fires that occur on the working face. Notify the Department of Environmental Conservation, Solid Waste Program, Fairbanks office, at 451-2108, if any fires occur on the working face.

E. Access

1. Construct and maintain on site roads as necessary to assure adequate traffic control. Adequate traffic control means that the site supervisor will maintain positive control of all persons who are within the landfill boundaries and that refuse will be deposited in approved locations. Dumping in unauthorized areas violates conditions of this permit and Alaska Administrative Codes.

F. Litter

1. Collect all windblown and littered refuse from within the disposal site and along the entrance road at least once each month and return it to the active disposal trench for burial. All littered wastes on lands within 500 feet of the site, whether windblown or dumped, shall be collected and disposed of at a frequency necessary to prevent this litter from becoming an nuisance.

III. PROHIBITIONS AND SPECIAL RESTRICTIONS

The permit holder shall:

- A. Prohibit discharge of firearms at the facility.
- B. Prohibit disposal of hazardous wastes, as defined in 40 CFR 261.3, oily wastes, waste oil, transformer oil, greases, paints, sludges, and chemical wastes at this facility unless written permission is obtained from the Department.
- C. Prohibit disposal of lead-acid vehicle batteries at the landfill site. Storage in a designated area in closed, leak-proof containers prior to transport to an acceptable recycle or disposal site is permitted.
- D. Prohibit disposal of contaminated soil or spill residue that exhibits hazardous waste characteristics for ignitability, corrosivity, reactivity, or toxicity, or contains listed hazardous waste as defined by the U.S. Environmental Protection Agency and the Department.
- E. Prohibit the disposal of contaminated soil which
 - 1. contains concentrations of hazardous substances exceeding one or more of the applicable migration to groundwater levels set in 18 AAC 75.341 Table B1 or Table B2;
 - 2. exhibits the characteristic of toxicity described in 40 C.F.R. 261.24(a); or
 - 3. is determined by the department under 18 AAC 75 to pose a migration to surface water threat. Soil that is not contaminated by this definition may be considered contaminated soil under 18 AAC 75.
- F. Prohibit the disposal of all salvageable or recyclable materials including, but not limited to, prefabricated buildings, vehicles, drums, tankage, and major equipment components. Non-salvageable scrap materials is defined as materials for which the transportation cost for recycling or resale exceeds the benefit gained from recycle or resale.
- G. Prohibit the disposal of domestic refuse and other putrescible wastes.

IV. MONITORING AND REPORTING

The permit holder shall:

- A. Visually monitor the site each month during active operation of the site for signs of damage or potential damage from settlement, ponding, leakage, erosion, or operations at the site. Maintain records of the date of each inspection, observations and any corrective action in the landfill operating record. Make copies of the records available to the Department upon request.
- B. Maintain a set of site development and use plans and submit an updated copy to the Department showing current status before the anniversary date each year.

IV. MONITORING AND REPORTING (Cont.)

C. Photograph the disposal site:

1. As prepared for waste disposal.
2. During waste deposition at least once per year.
3. After final cover has been applied.
4. After revegetation during the summer following closure.

Photographs taken under 1, 2, and 3, above should be submitted within 60 days of closure and photographs under 4, within one year of closure.

- D. Submit an inventory of volume, date of disposal and analytical data for any soil containing PCBs exceeding 1 mg/kg within 60 days of the last waste placement in the demolition debris cell.

V. CLOSURE AND RESTORATION

The permit holder shall:

- A. Notify the Solid Waste Program, Fairbanks ADEC Office at least 30 days before the site is to be permanently closed and the equipment withdrawn.
- B. Ensure that a final cover be applied within 90 days after the last waste is deposited and consists of at least two feet of clean soil, the top 6 inches of which will promote adequate water retention for the successful revegetation of the site with native vegetation or grasses. Soil used for final cover may not contain PCBs in excess of 1 mg/kg.
- C. Grade the completed landfill areas to promote surface water runoff without erosion so as to prevent ponding, erosion, and to minimize the amount of water entering the solid waste. Surface restoration and erosion control work, such as grading and contouring, will be completed within 90 days after site closure. Restoration will be required if the Department determines that significant erosion has occurred within 5 years of facility closure.
- D. Develop and implement a vegetative cover plan for completed area within the first growing season using plant species recommended by the Alaska Plant Material Center (907) 745-4469.
- E. Conduct annual visual monitoring inspections of the site for signs of damage or potential damage from settlement, ponding, leakage, or erosion for five years after the landfill has been closed. Record the inspection results and corrective actions, and maintain them in the facility's operating record.

V. CLOSURE AND RESTORATION (Cont.)

- F. Install two thermal monitoring devices installed in the waste disposal area at locations approved by the Department prior to closure of the construction and demolition debris cell.
1. Monitor the thermistor temperatures annually in the third quarter of each year for five years following closure. Record temperatures at two-foot vertical intervals down to the lowest point of waste disposal for each monitoring point.
 2. Record the results of the thermal monitoring in the operational record for the facility and submit a copy of the thermal monitoring results to the Department within 30 days of data collection.
 3. If thermal monitoring does not demonstrate freezeback of wastes within 5 years, monitor water in the active thaw zone surrounding the landfill using a groundwater monitoring sampling QA/QC plan approved by the Department.
- G. Submit a report five years after closure to ADEC Solid Waste Program, Fairbanks office that contains recent photographs of the site, thermal monitoring data, visual inspection logs, and description of any problems detected during visual monitoring and the corrective actions taken.
- H. Prepare a survey, as-built or record drawings showing the location, volume and type of waste deposited at the solid waste disposal site, and a legal description of the landfill property which would be found during a title search. Submit the as-built or drawing to the ADEC Solid Waste Program, Fairbanks Office, within 60 days of the final closure or expiration date of this permit. A copy will be provided to any purchaser or transferee at the time of property sale or lease.
- I. Within 60 days after the entire facility is permanently closed to landfilling, file the survey as-built or record drawings of the area used as a landfill with the State Recorder's Office or other appropriate land records office approved by the Department. At the same time, file a notation informing future property owners
1. that use of the land may not disturb the integrity of the final cover, cap, or other structures or devices installed as part of closure, unless approved by the Department; and
 2. about asbestos health and safety hazards related to disturbing the site.

Submit proof of these recordings to the ADEC Solid Waste Program.

VI. RESOURCE CONSERVATION AND RECOVERY

The permit holder shall:

- A. Prohibit uncontrolled scavenging and salvaging by the public.

- B. Designate a recyclable material storage area away from the working face where scrap metal or other goods may be stored prior to shipment for recycling.

APPENDIX C – REGULATED ASBESTOS DISPOSAL CONDITIONS

I. SITE PREPARATION

The permit holder shall:

- A. Comply with the designs and plans in the application dated April 30, 1998 which includes the following documents: Site Plan and Cross Section, Operations Plan, Visual Monitoring and Corrective Action Plan, Closure Plan, and Stormwater Discharge Notice of Intent; the letter amendments dated May 15, 1998, June 23, 1998, and June 30, 1998; and Final Design Drawings dated July 1, 1998 as well as the following permit conditions. Additional modifications may be requested, but must be authorized by a permit amendment, before that modification is effective.
- B. Designate and maintain a separate area for regulated asbestos containing material (RACM) waste disposal within both the municipal (camp) solid waste cell and the construction and demolition debris cell.
- C. Ensure the waste management area used for disposal of RACM waste is located on undisturbed earth or stable fill. It must not be located in an area that would preclude future closeout or remedial action at the facility.
- D. Install fencing, berms, trenches, or other barriers appropriate to the location of the landfill to control access to the designated asbestos disposal area.
- E. Post signs at the site entrance and at 100 foot intervals or less along the site boundary that state in one-inch or taller lettering:

ASBESTOS WASTE DISPOSAL SITE
DO NOT CREATE DUST
BREATHING ASBESTOS
IS HAZARDOUS TO YOUR HEALTH

Signs may be removed after the final cover has been applied, however, a permanent monument indicating that asbestos is buried below must be maintained.

II. RECEIVING ASBESTOS WASTE

The permit holder shall:

- A. Ensure the permittee or designated representative with asbestos disposal training is present at the site to supervise the disposal.
- B. Maintain a log for RACM disposal which contains all the information required in the EPA Waste Shipment Record Form in "Reporting and Recordkeeping Requirements for Waste Disposal Field Guide". waste shipment records and the facility owner must maintain all other records pertaining to the asbestos waste.

II. RECEIVING ASBESTOS WASTE (Cont.)

- C. Inspect loads to verify that RACM waste is properly contained in leak-tight containers and labeled appropriately. Each load shall be accompanied by a complete and accurate shipment record. The operator should contact the Alaska Department of Environmental Conservation (907-451-2108) and the U.S. Environmental Protection Agency (206-553-1757 or 907-269-4954) if the waste is improperly packaged.
- D. Ensure RACM asbestos waste is thoroughly wetted and placed in a leak-tight container before burial. Containers may be barrels, drums, or double six-mil or thicker plastic bags.
- E. Ensure all RACM containers shall have a warning label attached that states:

CAUTION
CONTAINS ASBESTOS
AVOID OPENING OR BREAKING CONTAINER
BREATHING ASBESTOS IS HAZARDOUS TO YOUR HEALTH
or:
CAUTION
CONTAINS ASBESTOS
AVOID OPENING OR BREAKING CONTAINER
BREATHING ASBESTOS DUST
MAY CAUSE SERIOUS BODILY HARM

III. WASTE DEPOSITION AND COVERING

The permit holder shall:

- A. Ensure non-regulated asbestos containing material (non-RACM) waste is buried in a manner that does not result in the release of asbestos fibers to the air or surface water. Non-RACM waste must be placed in a leak tight container or covered with six inches of clean soil within 24 hours after its placement in the disposal area. Regulations do not require non-RACM waste to be packaged or labeled, but in some cases, packaging may be appropriate to prevent the release of asbestos dust. The generation of asbestos dust from non-friable (non-RACM) asbestos is a violation of NESHAP. The disposal of non-RACM waste may occur only in permitted landfills which have had no fires occurring in them for more than one year.
- B. Place RACM waste into the disposal area carefully to avoid breaking the material or containers. Particular care must be taken with plastic bags since they may break under pressure and emit asbestos particles.
- C. Cover the waste with at least six inches of clean, non-asbestos containing soil material by the end of each day of waste deposition or place the packaged RACM waste in a durable secondary container. Secondary containers must be labeled and secured against unauthorized access.

- D. Cover all RACM waste containers with a minimum of 12 inches of soil at the end of each demolition and removal phase or summer season. Grade the completed landfill areas to promote surface water drainage without erosion.

IV. SITE CLOSURE

The permit holder shall:

- A. Install permanent survey markers at the site.
- B. Ensure that a final cover be applied within 90 days after the last waste is deposited and consists of at least two feet of material, the top 6 inches of which will promote adequate water retention for the successful revegetation of the site with native vegetation or grasses. Additional cover may be required in areas subject to excessive soil erosion or frost action.
- C. Maintain the integrity of the soil cover, slopes, vegetation, and drainage structures of closed asbestos waste disposal areas.
- D. Mark the limits of the asbestos disposal area on property survey as-built or record drawings.
- E. Record that asbestos disposal has occurred at the site on the notation filed with the State Recorder's Office or other appropriate land records office, with a written warning about health and safety hazards related to disturbing the site. Provide proof to the Department that this record had been placed on the property deed.

V. REPORTING

The permit holder shall:

- A. Retain all records regarding RACM waste accepted at the site for at least two years after site closure. Records shall be furnished to the Department upon request.
- B. Maintain an exact description of the location (maps or diagrams) with reference to permanent markers or survey posts, showing the depth of the waste area, and the amount, in cubic yards of RACM waste accepted. This information shall be kept in the facility operating record, until landfill closure is complete.
- C. Prepare and annually update as-built or record drawing showing the location and volume of waste deposited at the asbestos waste disposal areas and file those drawings with the Department when the site is closed.
- D. Provide a record to subsequent landowners that asbestos waste has been buried on the property and that it would be hazardous to attempt to excavate that area. The location of the asbestos disposal areas should be conveyed in the land title or deed document.

APPENDIX D - GENERAL PERMIT CONDITIONS

I. ACCESS AND INSPECTION

The permittee shall allow the Commissioner or her/his representative access to the permitted facilities at reasonable times to conduct scheduled or unscheduled inspections or tests to determine compliance with this permit, State laws, and regulations.

II. INFORMATION ACCESS

Except for information relating to confidential processes or methods of manufacture, all records and reports submitted in accordance with the terms of this permit shall be available for public inspection at the State of Alaska Department of Environmental Conservation, Fairbanks Office, 610 University Avenue, Fairbanks, Alaska 99709-3643.

III. CIVIL AND CRIMINAL LIABILITY

Nothing in this permit shall relieve the permittee from civil or criminal penalties for noncompliance, whether or not such noncompliance is due to factors beyond his control, including, but not limited to, accidents, equipment breakdowns, or labor disputes.

IV. AVAILABILITY

The permittee shall post or maintain a copy of this permit available to the public at the disposal facility.

V. ADVERSE IMPACT

The permittee shall take all necessary means to minimize any adverse impacts to the receiving waters or lands resulting from noncompliance with any limitation specified in this permit, including any additional monitoring needed to determine the nature and impact of the noncomplying activity. The permittee shall cleanup and restore all areas adversely impacted by the noncompliance.

VI. CULTURAL OR PALEONTOLOGICAL RESOURCES

Should cultural or paleontological resources be discovered as a result of this activity, work which would disturb such resources is to be stopped, and the State Historic Preservation Office, Division of Parks and Outdoor Recreation, Department of Natural Resources, is to be notified immediately (907-269-8721).

VII. APPLICATIONS FOR RENEWAL

In accordance with 18 AAC 15.100(d), applications for renewal or amendment of this permit must be made no later than 30 days before the expiration date of the permit or the planned effective date of the amendment.

VIII. OTHER LEGAL OBLIGATIONS

The requirements, duties, and obligations set forth in this permit are in addition to any requirements, duties, or obligations contained in any permit that the Alaska Department of Environmental Conservation or the U.S. Environmental Protection Agency has issued or may issue to the permittee. This permit does not relieve the permittee from the duty to obtain any and all necessary permits and to comply with the requirements contained in any such permit or with applicable state and federal laws and regulations. All activities conducted by the permittee pursuant to the terms of this permit and all plans implemented by the permittee pursuant to the terms of this permit shall comply with all applicable state and federal laws and regulations.

IX. POLLUTION PREVENTION

In order to prevent and minimize present and future pollution, when making management decisions that affect waste generation, the permittee shall consider the following order of priority options: waste source reduction; recycling of waste; waste treatment; and waste disposal.